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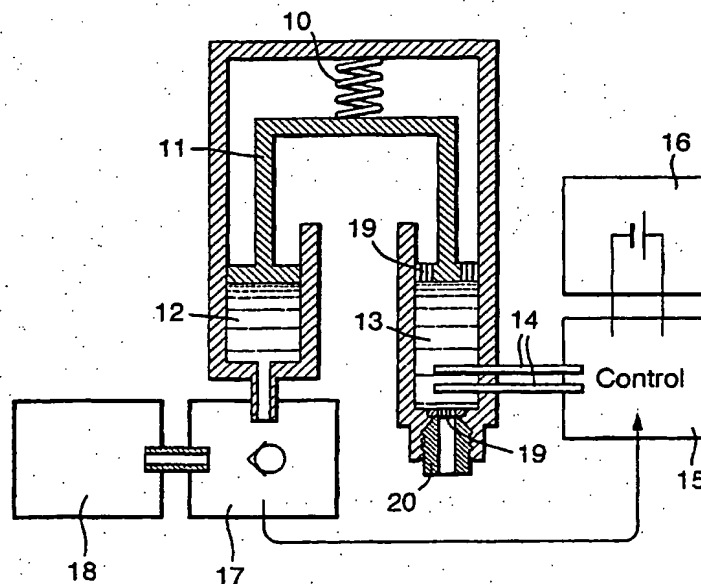
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(54) Title: DRUG INFUSION DEVICE



(57) Abstract: The invention provides a drug delivery infusion device comprising an injection means (18) in fluid connection with a drug reservoir chamber (12) and pressure-generation means (10) coupled to both the drug reservoir (12) and to a liquid filled controlled chamber (13), wherein the coupling is such that the liquid filled control chamber (13) serves to constrain the motion of the pressure-generation means (10), thereby controlling the drug infusion rate, wherein the liquid filled control chamber (13) is associated with means for controlled depletion of the liquid therein whereby depletion of the volume of liquid in the control chamber enables the pressure-generation means to drive the drug in the reservoir chamber therefrom for infusion thereof.

WO 2004/067066 A1

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# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP 04/000099

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 A61M5/145 A61M5/142

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 A61M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)  
EPO-Internal

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6 413 238 B1 (MAGET HENRI J R) 2 July 2002 (2002-07-02) abstract	1
A	US 5 891 097 A (FUJITA YUKO ET AL) 6 April 1999 (1999-04-06) abstract	1
A	US 5 242 406 A (ZUCKER SHLOMO ET AL) 7 September 1993 (1993-09-07) abstract	1
A	US 2001/056259 A1 (LAMBORNE ANDREW N ET AL) 27 December 2001 (2001-12-27) abstract	1
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
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- \*O\* document referring to an oral disclosure, use, exhibition or other means
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- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
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- \*G\* document member of the same patent family

Date of the actual completion of the international search

30 April 2004

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2002/156464 A1 (HOOPER SANDRA MARIE ET AL) 24 October 2002 (2002-10-24) abstract paragraph '0043! - paragraph '0046!; figures 1,2A ---	1
A	US 5 858 001 A (GROSS JOSEPH ET AL) 12 January 1999 (1999-01-12) column 8, line 16 -column 11, line 35; figures 1-8 ---	1
A	DE 197 13 082 A (LRE TECHNOLOGY PARTNER GMBH) 1 October 1998 (1998-10-01) abstract ---	1
A	US 5 743 879 A (KRIESEL MARSHALL S) 28 April 1998 (1998-04-28) abstract -----	1

# INTERNATIONAL SEARCH REPORT

International application No.  
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## Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: 28  
because they relate to subject matter not required to be searched by this Authority, namely:  
Rule 39.1(iv) PCT - Method for treatment of the human or animal body by therapy
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

# INTERNATIONAL SEARCH REPORT

Information on patent family members

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